KARVETSKIY, A.V.; SIGEL¹, M.G.; KULICHKIN, A.V.; DEMIN, A.M.; RYZHOVA, V.K.; FEDER, R.M.; MAKARÖVA, T.L.; MEYER, R.A.; STEPANOVA, V.P.; SKURATOV, A.D., red.; KHAUSTOVA, A.K., tekhn. red.

[Economy of Ul'ianovsk Province; statistical collection] Narodnoe khoziaistvo Ul'ianovskoi oblasti; statisticheskii sbornik. Ul'ianovsk, 1961. 271 p. (MIRA 15:5)

1. Ulyanovsk (Province) Statisticheskoye upravleniye. 2. Nachal'nik Statisticheskogo Upravleniya Ul'yanovskoy oblasti (for Skuratov).

(Ul'ianovsk Province—Statistics)

Albargin therapy for coccidiosis in chicks. Ptitsevodstvo 8 no.6:32-33 Je '58. (MIRA 11:6)

1.Gor'kovskaya oblastnaya vetbaklaboratoriya. (Poultry--Diseases and pests) (Coccidiosis) (Albargin)

KULICHKIN, P.M., kand. veter. nauk

Thermoelectric apparatus for disinfecting poultry houses. Veterinariia 42 no.11:112-113 N 165.

(MIRA 19:1)

1. Gor'kovskaya oblastnaya veterinarnaya laboratoriya.

KULICHKIN, P.N., veterinarnyy vrach

Action of albergin in coccidiosis of chicks. Veterinariia 41 no.8:47-48 Ag '64. (MIRA 18:4)

1. Gor'kovskaya oblastnaya veterinarnaya laboratoriya.

5.2100

77293 SOV/63-4-6-27/37

AUTHORS:

Samsonov, G. V., Obolonchik, V. A., Kulichkina, G. N.

TITLE:

Brief Communications. The Fusion Diagram of $\text{KBF}_{h} \cdot \text{KCl}$

System

PERIODICAL:

Khimicheskaya nuaka i promyshlennost', 1959, Vol 4,

Nr 6, pp 804-805 (USSR)

ABSTRACT:

The method of obtaining boron by electrolysis of melts has been least investigated, but it might have industrial value if sufficiently developed technologi-

cally. For the electrolysis, a bath containing B_2O_3 , MgO, and MgF₂ was used, and 92% pure boron was

obtained at 110° . In the present work, the fusion curve of system KBF $_{\rm ll}$ -KCl was investigated. Starting

materials were KCl, and $\mathrm{KBF}_{l_{\parallel}}$ obtained from borofluoric acid. The thermal analysis was carried out with a

Kurnakov pyrometer. Melting was done in platinum

Card 1/3

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Brief Communications. The Fusion Diagram of KBF_h . KCl System

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crucibles. From the results of thermal and chemical analyses (determination of boric acid), a fusion curve of the above system was prepared. A chemical compound having the formula $\text{KCl} \cdot \text{llKBF}_4$ (mp 590°) was detected in the system. The above compound forms a eutectic mixture with KBF_4 , containing 97.8% of KBF_4 (mp 508°). The second eutectic system (mp 471°) contains 87.6% of KBF_4 and is formed from $\text{KCl} \cdot \text{llKBF}_4$ and $\text{KCl} \cdot \text{There}$ is 1 figure; 1 table; and 7 references, 4 Soviet, 2 French, 1 U.S. The U.S. reference is: U.S. Patent Nr 2572249, 1949.

ASSOCIATION:

Institute of Cermets and Special Alloys, Academy of

Sciences, UkrSSR (Institut metallokeramiki i spetsial'nykh splavov Akademii nauk USSR)

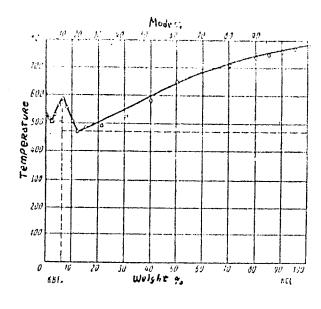
SUBMITTED:

May 29, 1959

Card 2/3

Brief Communications. The Fusion Diagram of $\mathrm{KBF}_{\mathrm{H}}\mathrm{KC1}$ System

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Card 3/3

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5.1310

AUTHORS:

Samsonov, G. V., Obolonchik, V. A., Kulichkina, G. N.

TITLE: The Problem of the Electrolytic Method of Obtaining Elemental Boron

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol. 33, No. 6, pp. 1365-1368

TEXT: The possibility of obtaining elemental boron by the process indicated in (Ref. 7) was again studied and some preliminary data were published. The electrolysis was carried out in a graphite crucible 56 mm in diameter and 95 mm high. A mixture was made of the powder-like initial salts with the ratio KCl: KBF_h = 5:1 based on the weight. In the case of using a Cu electrode, KCl: KBF_h = 5:1 based on the weight. In the case of using a Cu electrode, only 0.3 - 0.4% of Cu are found in the cathode product, whereas with iron and only 0.3 - 0.4% of Cu are found in the cathode product, whereas with iron and only 0.3 - 0.4% of Cu are found in the cathode product, whereas with iron and only 0.3 - 0.4% of Cu are found in the cathode of the graphite. It was found that by the process described in (Ref.7) elemental boron with a purity of no more than 93% can be obtained. A repeated use of the graphite crycible reduces the carbon content in the cathode deposit considerably. The carbon content in boron, being in the first electrolysis 6.82% decreases to 0.55% after repeated electrolysis. An increase in the temperature of the process leads to a decrease of the cathode current yield. It is probable that the current yield obtained at 1-5 amp/dm² is close to the maximum which can be attained under the given

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The Problem of the Electrolytic Method of Obtaining Elemental Boron

conditions. In the electrolysis of molten KBF₁ (without KCl) boron with a purity of 99% can be obtained, but with a very low boron yield. A. I. Kashtanov took part in the experimental part of the work. There are 2 graphs, 1 table, 1 diagram and 10 references: 2 Soviet, 3 French, 2 American, 2 English and

ASSOCIATION: Institut metallokeramiki i spetssplavov AN UkrSSR (Institute of Metal Ceramics and Special Alloys of the AS UkrSSR)

SUBMITTED: July 30, 1959

Card 2/2

SHEVTSOVA, Z.N.; KULICHKINA, G.N.; FEDOROVA, A.N.

TO SET THE PROPERTY HERE THE PROPERTY OF THE P

Solubility isotherms of the systems: PrCl3-KCl - HaO and PrCls-NH4Cl - HaO at 25 and 50°. Izv. vys. ucheb. zav.; khim. i khim. tekh. 4 no. 2:178-179 '61. (MIRA 14:5)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova. Kafedra tekhnologii redkikh i rasseyannykh elementov. (Systems (Chemistry)) (Solubility)

KULICHKOV, A.

Build faster and cheaper. Fin. SSSR 19 no.8:70-71 Ag '58. (MIRA 11:9)

1. Starshiy inzhener Khabarovskoy krayevoy kontory Gosbanka. (Khabarovsk Territory--Construction--Industry)

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927410019-8

DCVGALEVSKIY, Al'bert Abramovich; KULICHKOV, Anatoliy Grigor'yevich; KCRKHOV, Ya.G., red.

[Reducing the time needed for mastering new techniques; experience acquired by enterprises of the Administration of Ferrous and Nonferrous Metallurgy of the Leningrad Recommic Council] Schrashchenia suckey osyceniia nevei tekhniki; opyt predpritatii Upravieniia chernoi i tsvetnoi metallurgii Lensovnarkhoza. Leningrad, 1964. 20 p.

(M.M. 17:11)

HELYAYEV, D.K., UTKIN, L.G.; KULICHKOV, B.A.

Effect of the light factor in the development of fur cover in mink (Mustela vison Shr.). Izv. SO AN SSSR no.4 Ser. biol.-med. nauk no.1:91-100 '64. (MIRA 17:11)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

BARANOV, Yu.B.; BARANOVA, Ye.N.; BOBROVSKIY, V.I.; GRISHCHENKO, G.I.;

GONGHAR, G.V.; DOLBISH, V.S.; KALIHOVSKIY V.S.; KARAKOTSKIY, Ye.D.,

KULICHKOY, G.M.; KAGANOVSKAYA, S.M.; LESTEV, A.V.; METELKIN, L.I.;

TIKHOURAVOV, V.M. [deceased]; DOLBISH, V.S., spetsred.; KUZ'MINA,

V.S., red.; KISINA, Ye.I., tekhn.red.

[Fishing equipment used in Far Eastern waters] Orudia rybolovstva

Dal'nevostochnogo Basseina. Moskva, Pishchepromiadt, 1958. 214 p.

(MIRA 11:12)

(Soviet Far East--Fishing--Equipment and supplies)

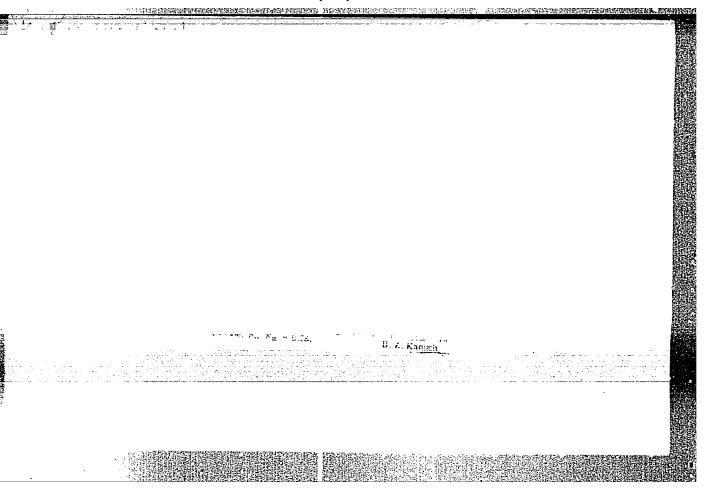
"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927410019-8

KULICHKOV, N.N., inzhener.

Laboratory freezing apparatus. Rats. i izobr. predl. v stroi no.66:
21-24 *53. (MIRA 7:9)

(Refrigeration and refrigerating machinery)

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927410019-8



GOLUBEVA, T.K.; KALASHNIKOVA, A.Ya.; KULICHKOV, S.A.; TUMANSKIY, A.L. [deceased]; YEGORENKOV, I.P., kand.tekhn.nauk, red.; SIROTIN, A.I., red.izd-va; UVAROVA, A.F., tekhn.red.

一个大学中的自然的影響的影響的最高的影響的影響的影響的影響的影響的影響的影響的影響。

[Foundry sands from commercial quarries of the U.S.S.R.; a hand-book] Formovochnye peski promyshlennykh ker'erov SSSR; spravochnik. Pod red. I.P.Egorenkova. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1960. 242 p. (HIRA 13:9) (Sand, Foundry)

CHERNOSVITOV, Yu.L.; DZENS.LITOVSKIY, A.I.; IVANOV, V.A.; KULICHKOV, S.A., nauchn. red.

[Industry's requirements as to the quality of mineral raw materials; a handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Moskva, Nedra. Nos.9, 77. 1965.

(MIRA 18:9)

l. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

·中华的特别的基础的特别的

Microclimatic and radiation observations on the grounds of Mechnikov Hospital. Trudy ISGMI no.68:100-110 '61.

(MIRA 15:11)

1. Kafedra kommunal'noy gigiyeny Leningradskogo sanitarnogigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof.

A.I.Shtreys).

(LENINGRAD -- HOSPITALS -- HYGIENE)

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927410019-8

HRUBISKO, M.; HODZOVA, O.; MAYEROVA, A.; CICMANCOVA, L.; Technicka spolupraca: KULICHOVA, E.

Beta-thalassemia in a Slovak family. Cas. lek. Cesk. 104 no.47: 1290-1296 26 N '65.

1. Fakultna transfuzna stanica, subkatedra hematologie a transfuzie krvi UDVLF v Bratislave (veduci doc. dr. M. Hrubisko, CSc.) a II. interna klinika Lekarskej fakulty Univerzity Komenskeho v Bratislave (prednosta prof. dr. V. Haviar). Submitted February 1965.

L 22736-66 EVT(1) GW

ACC NR: AP6002858

- SOURCE CODE: UR/0286/65/000/024/0008/009

AUTHORS: Zel'tsman, P. A.; Raytburg, G. S.; Kulichuk, Yu. R.

ORG: none

TITLE: Mechanism for controlling the clamping levers of oil well devices. Class 5, No. 176843 / Announced by Special Construction Bureau of Geophysical Device Construction for Geology of the UkrSSR (Osoboye konstruktorskoye byuro geofizicheskogo priborestroyeniya glavgeologii UkrSSR)

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 8-9

TOPIC TAGS: well drilling machinery, lever, pressure gage

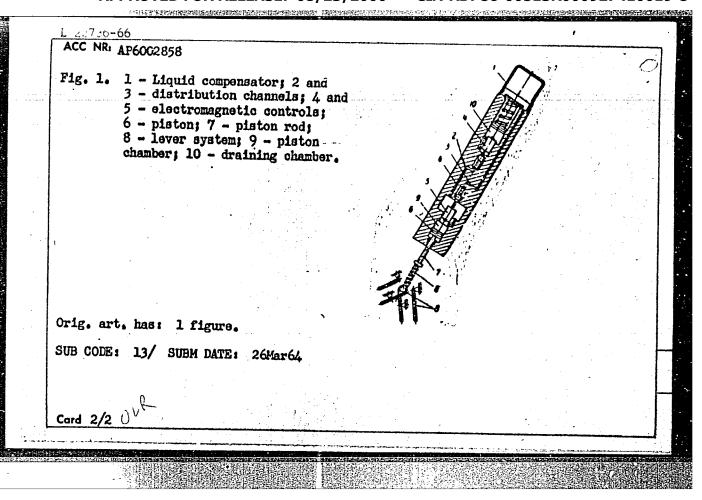
ABSTRACT: This Author Certificate presents a mechanism for controlling the clamping levers of oil well devices, placed in a hermetically sealed chamber filled with fluid and located inside the drill-hole device. To simplify its construction and decrease the cost of the actuator, the latter is made as a hydraulic multiple action system equipped with a liquid compensator which senses the drill-hole pressure and transmits it through electromagnetically controlled distribution channels to the working piston. The piston rod is attached to the lever system, while the chamber is connected to an unfilled draining reservoir at a lower pressure than the drill-hole pressure. This design assures the return action of the system (see Fig. 1).

Card 1/2

UDC: 550.839

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927410019-8



KULICKA, F.; MROVED, J.

Complications following endotracheal anesthesia. Cesk. otolaryng. 13 no.2:93-99 Ap '64.

1. Otorinolaringologicka katedra lekarske fakulty PU [Palackeho Universita] v Olomouci (vedouci prof. dr. J. Chvojka).

KULICKA, Rudolf

Economical design of fixtures for modern machining techniques. Stroj vyr 11 no.3:131-135 Mr '63.

1. Zavodni pobocka Ceskoslovenske vedecko-technicke spolecnosti, Zavody presneho strojirenstvi, n.p., Gottwaldov.

KULICKA, F.

The effect of selenium on the upper respiratory tract. Cesk. otolaryng. 12 no.3:168-173 Je 163.

1. Otolaryngologicka klinika lek. fak. PU v Olomouci, prednosta prof. dr. J. Chvojka.
(SELENIUM) (OCCUPATIONAL DISEASES)

KULICKA, JOANNA

POLABIL

GREGORONICZ, Zbigniew, doc. dr: KULICKA, Joanna, mgr inz; KARFINERI, Vladyslaw, dr inz.

1.Department of Sanitary Chemistry (Katedra Chemia Sanitarnej) (for Gregorovicz and Kulicka); 2. Department of Organic Technology (Katedra Technologii Chemicznej Organicznej) (for Karminski). Polytechnic, Silesia, Glivice (Politechniki Slaskiej, Glivice) - (for all).

Varsaw, Chemin analitycma, No 6, November-December 1965, pp 1347-1351.

"Thin-layer chromatographic analysis of some pyridine derivatives."

P/034/60/000/010/005/005 A225/A026

26.2191

AUTHOR 8

Kulicki, Zbigniew, Master of Engineering

TITLES

The Basic Methods of Sizing Control Valves

PERIODICAL: Pomiary - Automatyka - Kontrola, 1960, No. 10, pp. 410 - 413

The purpose of the article is to present four methods for the selection of suitable control valves. The first is the contraction method: the valve is regarded as a contracted section of the pipe for measuring purposes and the following formula is applied to determine the rate of flows

 $Q_{v_1} = 0.01252 \cdot \alpha_g \cdot \beta_1 \cdot \beta_2 \cdot \beta_3 \cdot \epsilon \cdot m \cdot D^2 \cdot \sqrt{\frac{\Delta P}{\ell_1}} m^3/h$ (1)

where α_g is the flow in the concentrated section; β_1 - correction factor for α_g ; β_2 - correction for rough surface inside the pipe; β_3 - correction for the loss in orifice; $m=(d/D)^2$ - the ratio between contraction and the following divergence; D - diameter of pipe before contraction; d - diameter of the contracted section; ΔP^2 - pressure drop in the contraction; Q_1 - density before the contraction (in kg/m²). Of course, a valve and a measuring contraction are not identical due to the different shape of both devices, and some inaccuracies will

Card 1/3

P/034/60/000/010/005/005 A225/A026

The Basic Methods of Sizing Control Valves

arise. The second method is that of applying the flow coefficient w. In this case the rate of flow is expressed by

 $Q_{V_1} = \psi \cdot m_X \cdot F \sqrt{\frac{P_1}{C_1}} m^3/s$

heres P1 is the pressure before the valve. The author then explains the meaning of the flow coefficient ψ , depending on the changing diameter of the bore, on changing velocity, pressure and direction. The third method is very popular in the USA. The author calls it " C_V Method". To calculate the intensity of the flow the following formula is used:

 $Q_{v1} = C_v \cdot \beta_1 \cdot \sqrt{\frac{\Delta p}{\varrho_1}} m^3/h,$ (17)

here is: Δp - pressure drop in the control valve; C_V - passing coefficient of the valve depending on its aperture (the latter is always indicated in the manufacturers' catalogues). Finally, the last method is called " the resistance method", based on the formula for an incompressible fluid: $\frac{P_1 - P_2}{Q_1} = 5z_x - \frac{\sqrt{2}}{2\mu}.$

(21)

In this, P1 is the pressure before the valve; P2 - pressure after the valve; wz velocity of the medium in the same bore to which the valve resistance number \$zx refers; \$z - resistance of the valve. All authorsnamed in the refer-

Sard 2/3

The Basic Methods of Sizing Control Valves

P/034/60/000/010/005/005 A225/A026

ences agree that all four methods may be employed for gases. The author, by his own analysis in another not yet published work, came to the conclusion that the expansion number ε and the flow coefficient ψ most generally are a function of the aperture m, of the pressure ratio p_2/p_1 , and the mean polytropic coefficient of the isotropic change m_{85r} . As the most reliable ones, the author regards the contraction method and the flow coefficient method. There are 3 figures and 16 references: 2 Polish, 3 Soviet, 3 German and 8 English.

Card 3/3

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CIA-RDP86-00513R000927410019-8

5-66 EWP(j). AP6031706 L 41765-66 ACC NRI (N) SOURCE CODE: FO/0099/66/040/003/0499/0501 AUTHOR: Kulicki, Zdzislaw; Kiersznicki, Tadeusz; Mazonski, Tadeusz ORG: Department of Organic Chemical Technology, Silesian Institute of Technology, Cliwice (Katedra Technologii Chemicznej Organicznej Politechniki Slawiej) TITIE: Alkylation of chlorobenzen, by isopropyl bromide in the presence of anhydrous aluminium chloride catalyst SOURCE: Roczniki chemii-annales societatis chimicae polonorum, v. 40, no. 3, 1966, 499~501 TOPIC TAGS: alkylation, chlorobenzene, isomer ABSTRACT: The alkylation of chlorobenzene with isopropyl bromide in the presence of anhydrous aluminum chloride has been studied. The content of wtho, meta, and para... isomers in the mono-isopropylchlorobenzene fraction has been determined. The yield of mono-isopropylchlorobenzene was 68.6 percent, the orientation obtained was approximately 10.0 percent ortho, 65.4 percent meta, and 24.4 percent para. The analysis of the product was performed by vapor-liquid chromatopgraphy. Orig. art. has: 1 table. [Based on authors Eng. abst.] [JPRS: 36,002] 07 / SUBM DATE: 13May65 / ORIG REF: 001 Card 1/1

KARMINSKI, Wladyslaw; KULICKI, Zdzislaw; MAZONSKI, Tadeusz

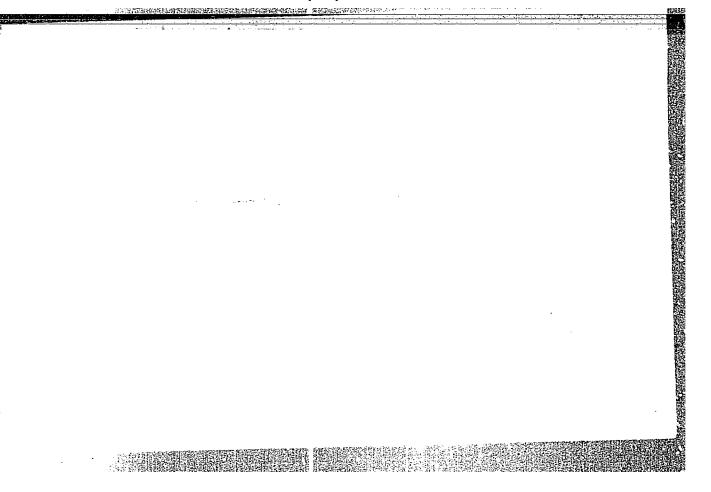
Poshibility of separating pseudocumene from solvent petroleum by fractional distillation and selective sulfonation and desulfonation. Koks 9 no.4:122-126 Jl-Ag '64.

1. Department of Technology of Organic Chemistry of the Silesian Technical University, Gliwice.

KARMINSKI, Wladyslaw; KULICKI, Zdzielaw

Ullmann synthesis of 2,2-bipyridine from 2-bromopyridine in the presence of various solvents. Chemia stosow A 9 no.1: 129-133 165.

1. Department of Technology of Organic Chemistry of Silesian Technical University, Gliwice. Submitted March 27, 1964.



MAZONSKI, Tadousz; KULICKI, Zdzielaw; PINDUR, Brygida

Reaction of alkylating chlorobenzene with isopropyl alcohol in the presence of various catalysts. Pt.l. Rocz chemii 37 no.5: 569-573 *63.

1. Department of Organic Technology, Silesian Institute of Technology, Gliwice.

KULICSOV, V.A., dr.

Examination of the concentrating function of the gallbladder by intravenous cholecystangiography. Magy. radiol. 14 no.5: 269-272 S 162.

1. A Szovjet Hadsereg Egessegugyi szolgalata.
(CHOLECYSTOGRAPHY) (CHOLANGIOGRAPHY) (CHOLECYSTITIS)
(PANCREATITIS) (CHOLELITHIASIS) (PAPILLOMA)

KULICZ, Adam; SAFARZYNSKA-RYBKA, Irena

A case of false diverticulosis (Barsonyi's syndrome. Polski tygod. lek.15 no.10:361-363 7 Mr '60.

1. Z Zakladu Radiologii Szpitala Zespolonego no.2 w Bytomiu; kierownik: dr.med. Bohdan Romanowski i z II Kliniki Chorob Wewnetrznych Sl. A.M. w Bytomiu; kierownik: prof. dr.med. Kornel Gibinski. (ESOPHAGUS dis.)

KULICZ, Adam

A case of adenomyomatosis of the gall bladder. Pol. przegl. radiol. 29 no.3:301-305 My-Je 165.

1. Szpital Zespolony w Bytomiu --- Zaklad Radiclogii (Kierownik: dr. med. B. Romanowski).

KULIDA, M., svarshchitsa-montazhnitsa (Chelyabinsk)

Largest in Europe. Rabotnitsa 36 no.8:2 Ag '58. (MIRA 11:9)

(Chelyabinsk--Blast furnaces)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927410019-8"

KULIDA, V.

From practices in the creation of teaching aids. Avt.transp. 39 no.4:47 Ap 161. (MIRA 14:5)

1. Direktor Krasnodarskogo uchebmogo kombinata.

(Highway transport workers—Education and training)

(Visual aids)

EVELOPATANOV. 1. inghener; BURMISTROV, A., inghener.

Distilling high sulfur crude in a pressure vacuum installation.

Weftianik 2 no.7:28-29 Jl '57. (MLRA 10:8)

1.Kuybyshevekiy neftepererasatyvayushchiy savod.

(Distillation) (Vacuum apparatus)

KULIFAJ, Lukas, inz.

Experiences in organization of construction assembly in building the Vychodoslovenske zeleziarne. Pozemni stavby 13 no.4:151-153 165.

1. Hutne stavby National Enterprise, Kosice.

EDITOR TO PERSONAL PROPERTY OF THE PERSONAL PR

SOV/149-58-6-7/19 ,

AUTHORS: Murach, N.N. and Kulifeyev, V.K.

TITIE: Some Problems of the Metallurgical Thermic Processes

(Nekotoryye voprosy metallotermii)

Izvestiya Vysshikh Uchebnykh Zavedeniy, Tsvetnaya PERIODICAL:

Metallurgiya, 1958, Nr 6, pp 64 - 71 (USSR)

ABSTRACT: When a metal is produced by the thermit process, another

metal can be used as a reducing agent only if the formation of its oxide results in a large decrease of the free

energy $F = -A = -Q - T \Delta S$, where A - the maximum work of the reaction, Q - the heat of oxide formation,

T - absolute temperature, ΔS - change of the entropy. It has been already established that in order to start the

reaction in the alumino-thermit process the heat of the formation of the oxide ($\Delta H \text{ kcal/g-mole of } O_2$) and the

specific heat of formation (Q kcal/kg of the oxide) should satisfy the conditions described by Eq (1), which

in the case of the metals of the titanium sub-group

becomes Eq (2). By comparing the value of Q calculated from Eq (1) or (2) with its actual value, the probability

of a given reaction taking place can be assessed. When

Cardl/9

SOV/149-58-6-7/19

Some Problems of the Metallurgical Thermic Processes

Q is too small, a heat-producing substance is introduced; when Q is too large, cooling is necessary by the addition of a neutral substance. The degree of the completeness of the reaction is usually assessed from the metal yield. This method is not reliable and the object of the present investigation was to explore the possibilities of using for this purpose the value of Q determined experimentally for several reaction by calorimetric measurements. A calorimeter of the type normally used for the determination of the calorific value of fuels and adapted to suit the present requirements, was used for the experimental work. Silica crucibles, lined with aluminium or calcium oxide were used and the reaction was started by means of an electrically heated nichrome wire. The charge, in the form of briquettes 2-5 g in weight was placed in the bomb which was then purged and filled with argon. The heat of reaction, Q, was calculated from the formula (Eq 3) where H - heat equivalent of the calorimeter, Δt - the temperature rise, Q' - the quantity of heat generated by the igniting device and equal 0.239 UIT . In the preliminary expriments, the

Card2/9

SOV/149-58-6-7/19

Some Problems of the Metallurgical Thermic Processes

effect of briquetting and of the weight of the charge on the yield of the metal were investigated. The results are reproduced in Table 1 under the following headings: Weight of the charge, g; Theoretical yield of the metal, g; Actual yield when no briquetting was used (a) g and (b) %; Actual yield from briquetted charge (a) g and (b) %; Actual yield from briquetted charge (a) g and (b) %, The beneficial effect of briquetting on the metal yield is attributed to the fact that sputtering is minimised since less air is entrapped in briquetted charge and to the improved heat balance of the smelting process. Increasing the weight of the charge also usually results in an increase of the metal yield, since when a large charge is used, the products of the reaction retain the heat and so remain in the liquid state for a longer period, so that coalescence of the metal drops in the slag is more likely to occur. Consequently, it can be postulated that, all other conditions being equal, the metal yield depends on the purely physical conditions of the liquid metal - liquid slag system, which means that the completeness of the reaction cannot be accurately assessed

Card3/9

SOV/149-58-6-7/19

Some Problems of the Metallurgical Thermic Processes

from the metal yield since the smaller the charge used the larger is the quantity of metal lost in the slag. The heat of reaction determined by calorimetric measurements is a much more reliable criterion as was shown by the results of a series of experiments whose average results are reproduced in Table 2 showing that the value of the heat of reaction (bottom line, cal) is hardly affected by the variation of the weight of the charge (top line, g). In the next stage of the investigation the following reactions were studied:

$$3BaO_2 + 2Al = Al_2O_3 + 3BaO + 352$$
 kcal $Cr_2O_3 + 2Al = Al_2O_3 + 2Cr + 130$ "
 $Fe_2O_3 + 2Al = Al_2O_3 + 2Fe + 2O4$ "
 $MoO_3 + 2Al = Al_2O_3 + Mo + 22O$ "
 $3V_2O_5 + 10Al = 5Al_2O_3 + 6V + 854$ "
 $3CaO_2 + 2Al = Al_2O_3 \cdot 3CaO + 385$ "
 $CrO_3 + 2Al = Al_2O_3 \cdot Cr + 261$ "

Card4/9

SOV/149-58-6-7/19 Some Problems of the Metallurgical Thermit Processes

required theoretically, g;

$$Al_2(SO_4)_3 + 8A1 = 4Al_2O_3 + Al_2S_3 + 900$$
 kcal
 $KClO_3 + 2A1 = Al_2O_3 + KCl + 4l3$

In each case the effect of excess aluminium on the completeness of the reaction (as indicated by the heat of reaction) was determined. The results reproduced in Figure 2 (Q kcal/kg plotted against excess Al in % of the theoretically required quantity) show that the larger the excess of the reducing agent, the more complete is the reaction. The object of the next series of experiments was to determine the extent to which the accuracy of assessing the completeness of the reaction in thermit processes from the metal yield is affected by the fact that the produced metal may contain a quantity of the reducing agent when the latter is used in excess of the theoretically required quantity. The results of these experiments are given in Table 4 under the following headings:

1) Charge (a) Fe₂O₃, g; (b) quantity of aluminium

(c) excess of Al, g;

Card5/9

SOV/149-58-6-7/19

Some Problems of the Metallurgical Thermit Processes

excess of Al, %; (d)

Theoretical Fe yield, 5; 2)

Actual yield, g; (a) including alloyed Al;

(b) excluding alloyed Al;

4) Completeness of the reaction, %, determined from (a) the total metal yield; (b) the metal yield excluding alloyed Al and (c) heat of reaction. It can be seen that in cases when small excess of Al had been used, the degree of completeness of the reaction determined from the quantity of the obtained metal from which the excess of Al used had been deducted was in good agreement with the assessment based on the calorimetrically determined heat of reaction. However, when large excess of Al was used, the calorimetric data gave values of the completeness of the reaction higher than that obtained from the metal yield. This effect is attributed to the formation of an intermetallic compound resulting in the evolution of an additional quantity of heat. In the next few paragraphs of the paper, factors affecting the completeness of the thermit processes in which so-called "warming-up" additions are used, are discussed. The effectiveness of these

Card6/9

SOV/149-58-6-7/19

Some Problems of the Metallurgical Thermic Processes

additions is stated to depend on the extent to which they react with the reducing agent and on their effect on the properties of the produced slag. In this connection, the author discusses the production of uranium by reduction of its oxide by aluminium according to the reaction:

 $3 U_3 O_8 + 16 A1 = 9U + 8 A1_2 O_3 + 665 keal$.

Since only 274 kcal/kg U₃0₈ is evolved, while the necessary heat of reaction calculated from Eq (1) is 890 kcal/kg, additional quantity of heat has to be supplied for which purpose additions of CaO₂ or KClO₃ are used. The results of many experiments showed that optimum yield was obtained when the calculated heat of reaction, Q_p, was considerably lower than the specific heat of reaction obtained from Eq (1). The results of two experiments carried out under the same conditions but with different "warming-up" additions, are given in Table 5 under the following headings: 1) Nr of the experiment; 2) Weight of the contituents of the Card7/9 charge, g; 3) Excess of Al (a) g, (b) %; 4) The degree

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SOV/149-58-6-7/19
Some Problems of the Metallurgical Thermic Processes

of completeness of the reaction of the "warming-up" addition, %; 5) Alloy yield, g; 6) Heat of the reaction kcal/kg: (a) calculated; (b) with the correction for the completeness of the reaction of the "warming-up" addition; (c) with the correction for the heat of formation of the intermetallic compounds (UAl₂). Finally, in view of the lack of agreement as to the Correct values of the heat of formation AH of V₂O₅, the heat of reaction between V₂O₅ and Al was carefully measured and found to be 1 562 kcal/kg V₂O₅. The value of AH calculated from this figure was 384 kcal/kg which agreed well with the value of AH = 382 kcal/kg determined by Kubaschewski (Ref 5).

There are 2 figures, 5 tables and 11 references, 8 of which are Soviet, 1 English and 2 German.

Card8/9

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Some Problems of the Metallurgical Thermic Processes

ASSOCIATION: Moskovskiy institut tsvetnykh metallov i zolota.

Kafedra radioaktivnykh metallov (Moscow Institute of Non-ferrous Metals and Gold. Chair of Radio-

active Metals)

SUBMITTED: June

June 23, 1958

Card 9/9

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(TUBERCULOSIS exper.)

(OMENTUM pathol.)

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HORNUMG, Stanislaw; KOMAICTYKOMA, Janina; KULIG, Andrzej; POLCHOTYK, Mieczyslaw; ROKITA, Zofia; CHACTIA, banete

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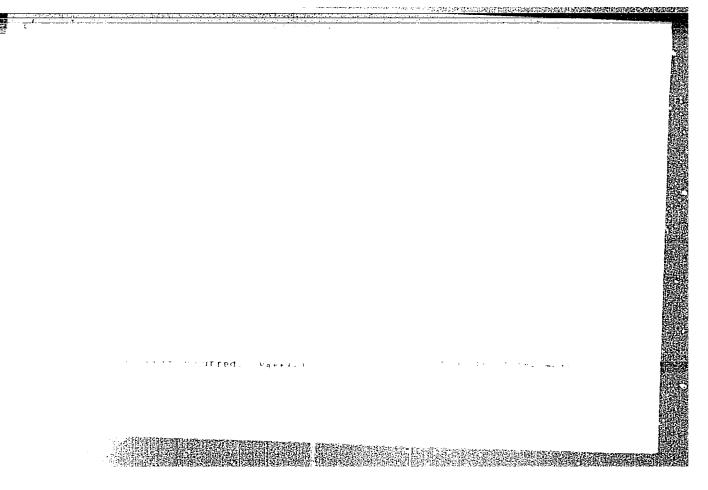
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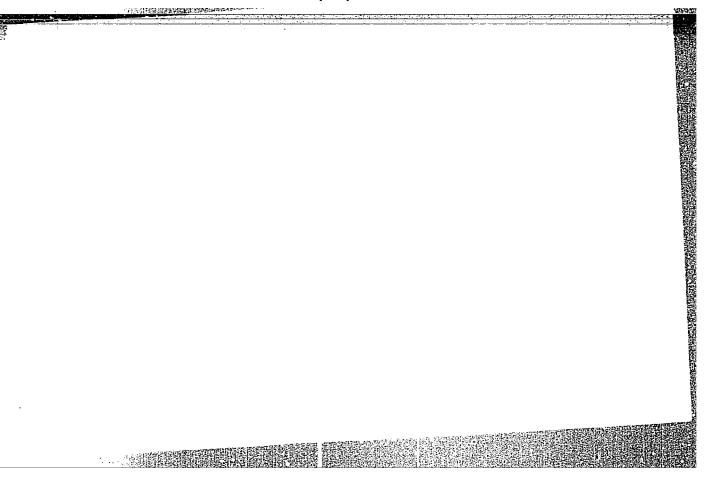
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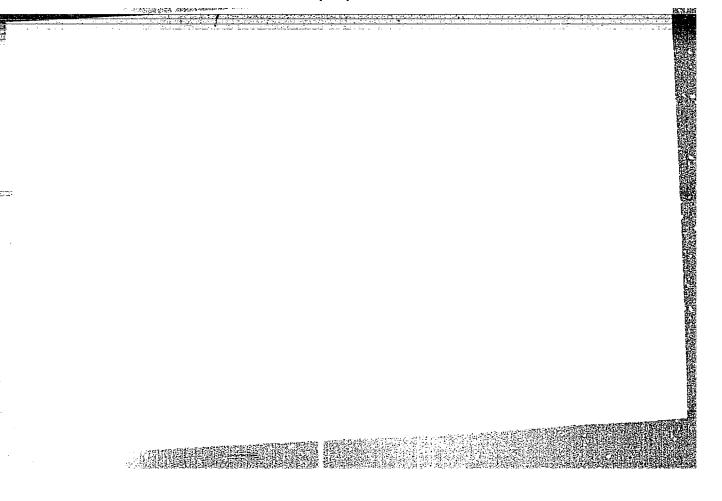
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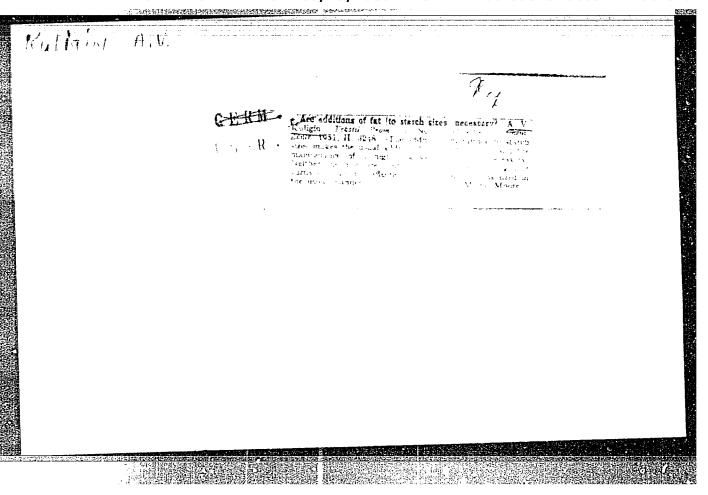
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L 45259-66 EWT(m)/EWP(j)/T RM

ACC NR. AP6023236 (A) SOURCE CODE: UR/0342/66/000/004/0031/0035

AUTHOR: Kuligin, L. A.

ORG: Ivanovo Scientific Research Institute of the Cotton Industry (Ivanovskiy nauchno-issledovatel skiy institut khlopchatobumazhnoy promyshlennosti)

TITLE: Use of radiation in the study of the principles governing the movement of yarns in a drawing machine

SOURCE: Tekstil' naya promyshlennost', no. 4, 1966, 31-35

TOPIC TAGS: cotton yarn, single apron drawing machine/Geiger counter, VSP converter

ABSTRACT: Previous experiments have shown that during drawing yarns moving at speeds not exceeding 0.25 cm/sec pass directly from v_1 (feeding rate) to v_2 (rate of drafting). The influence of high-wpeed drafting on the movement of yarns has not yet been studied, but it has been shown that if speeds are higher than 0.25 cm/sec, uncontrolled yarns can reach intermediate speeds when passing from v_1 to v_2 . To study the movements of yarns, the author selected cotton yarns of

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ACC NR: AP6023236
various lengths moving in a single-apron high drafter operating at various capacivarious lengths moving in a single-apron high drafter operating at various capacities and speeds. The yarns were treated with the radioactive isotope strontium90(Sr90) with a specific activity of 5 mcu/ml; they were immersed for 8 min in a strontium solution and then dried at room temperature. Their radioactivity was determined by a Geiger counter and a VSP-type converter. Only yarns with an activity of at least 20,000 impulses per min were studied. The author describes the experiment in detail and concludes that the uncontrolled yarns studied have an intermediate speed when passing from v₁ to v₂. Studies of the average velocity of uncontrolled yarns are also described, and the author states that it is possible of uncontrolled yarns are also described, of uncontrolled yarns 15, 20, 30 and to determine the average velocity v(cm/sec) of uncontrolled yarns 15, 20, 30 and 35 mm long as is shown in a table appearing in original article. Orig. art. has:

[GC]

SUB CODE: 11,07,18/ SUBM DATE: none/

Card 2/2 Pull

KULIGIN, L.A.

Application of radiation for the analysis of the contact between fibers in the products of spinning. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.2:66-70 '65. (MIRA 18:5)

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SARKIS'YANTS, T. Kh.; ZUBAREV, A.V.; KULIGIN, N.A.; LOSHKAREV, K.I.

Single-cone bit. Mash. i neft. phor. no.3:3-6 '63 (MIRA 17:7)

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KARNAUKHOV, L.A.; KULIGIN, N.A.; LOSHKAREV, K.I.

在21167年中的特別的企業的企業。 1118年中的企業的企業的企業的企業的企業的企業。 1217年中的企業企業。 1217年中的企業。 1217年中

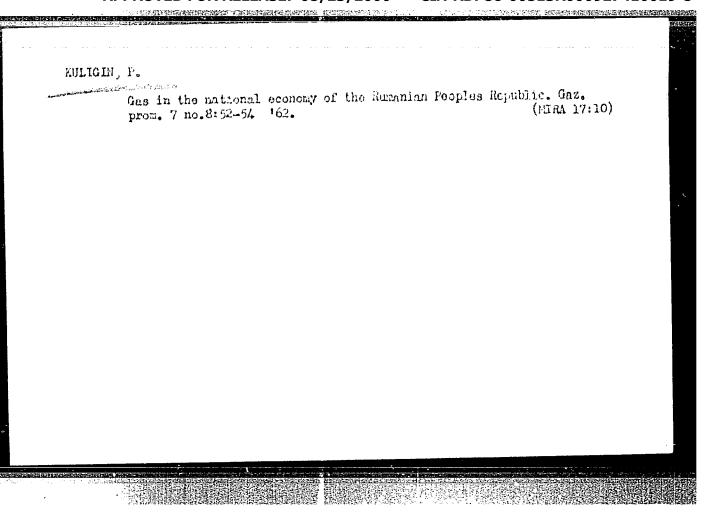
New design for abrasive-cutting bit. Mash. i neft. obor. no.3: (MIRA 17:7)

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(NIRA 11:7)

(Ivanovo--Cotton manufacture)

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